CC 32-33-75

Schlumberger

HIGH RESOLUTION DIPMETER 5"

CSU

```
COMPANY:     REICHHOLD ENERGY CORP.

WELL:        COLUMBIA COUNTY 32-33

FIELD:       MIST
COUNTY:      COLUMBIA
STATE:       OREGON
NATION:      USA
LOCATION:    244.5'N & 6.77'W OF CENTER

   SEC:      33          TWP: 7N          RGE: 5W, WB&M


PERMANENT DATUM:          GL            ELEVATIONS-
ELEV. OF PERM. DATUM:  1092.8 '           KB: 1104.2 '
LOG MEASURED FROM:        KB              DF:
     11.4 '     ABOVE PERM. DATUM         GL: 1092.8 '
DRLG. MEASURED FROM:      KB


DATE:               4 AUG 82
RUN NO:             1

DEPTH-DRILLER:       2614.0 '
DEPTH-LOGGER:        2614.0 '
BTM. LOG INTERVAL:   2606.0 '
TOP LOG INTERVAL:     481.0 '

CASING-DRILLER:       480 '
CASING-LOGGER:        481 '
CASING:             7

BIT SIZE:           6.25
   DEPTH:            2614 '
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```
OTHER SERVICES-
  DIL
  BHC

PROGRAM
TAPE NO:
  22.2
SERVICE
ORDER NO:
  303907
```

```
TYPE FLUID IN HOLE:    LIGNOSULFONATE(BAROID)
DENSITY:                9.9 LB/G
VISCOSITY:             60.0 S
PH:                     9.0
FLUID LOSS:             4.2 C3
SOURCE OF SAMPLE:      FLOWLINE
RM:                     2.260 OHMM AT 70.0 DEGF
RMF:                    1.360 OHMM AT 76.0 DEGF
RMC:                    1.120 OHMM AT 71.0 DEGF
SOURCE RMF/RMC:        MEASURED/MEASURED
RM AT BHT:              1.673 OHMM AT 97.0 DEGF
RMF AT BHT:             1.085 OHMM AT 97.0 DEGF
RMC AT BHT:             0.840 OHMM AT 97.0 DEGF

TIME CIRC. STOPPED:    1230
TIME LOGGER ON BTM.:   1845

MAX. REC. TEMP:         97.0 DEGF
```

LOGGING UNIT NO:	8076
LOGGING UNIT LOC:	SACRAMENTO
RECORDED BY:	MAYER
WITNESSED BY:	ALGER

REMARKS:

EQUIPMENT NUMBERS-

HDS 1954 HDE 1879 HDM 1726 DAM 1891

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CHANGED PARAMETERS

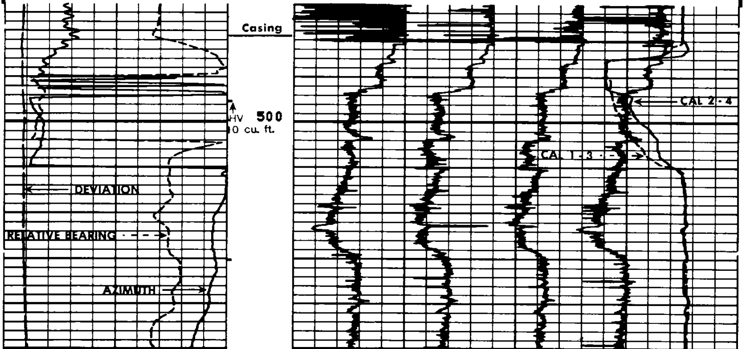
NAME	VALUE	UNIT	NAME	VALUE	UNIT
VHOL	496.265	F3			

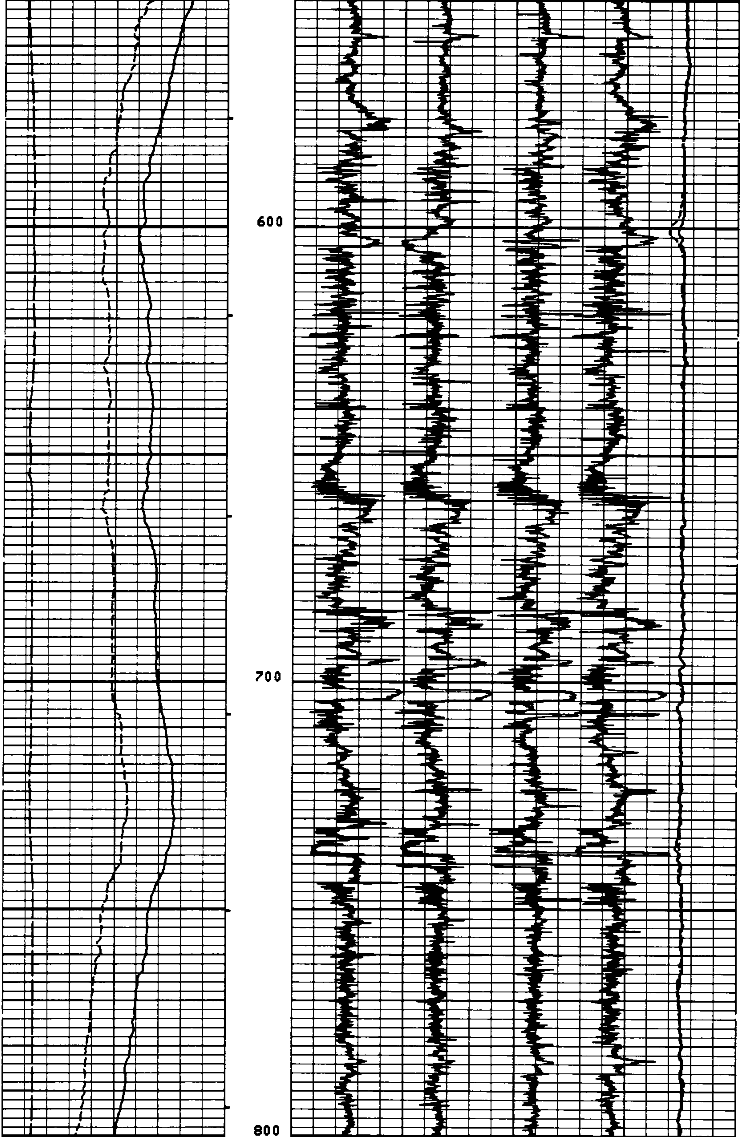
DEVI(DEG)
-2.000 18.000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

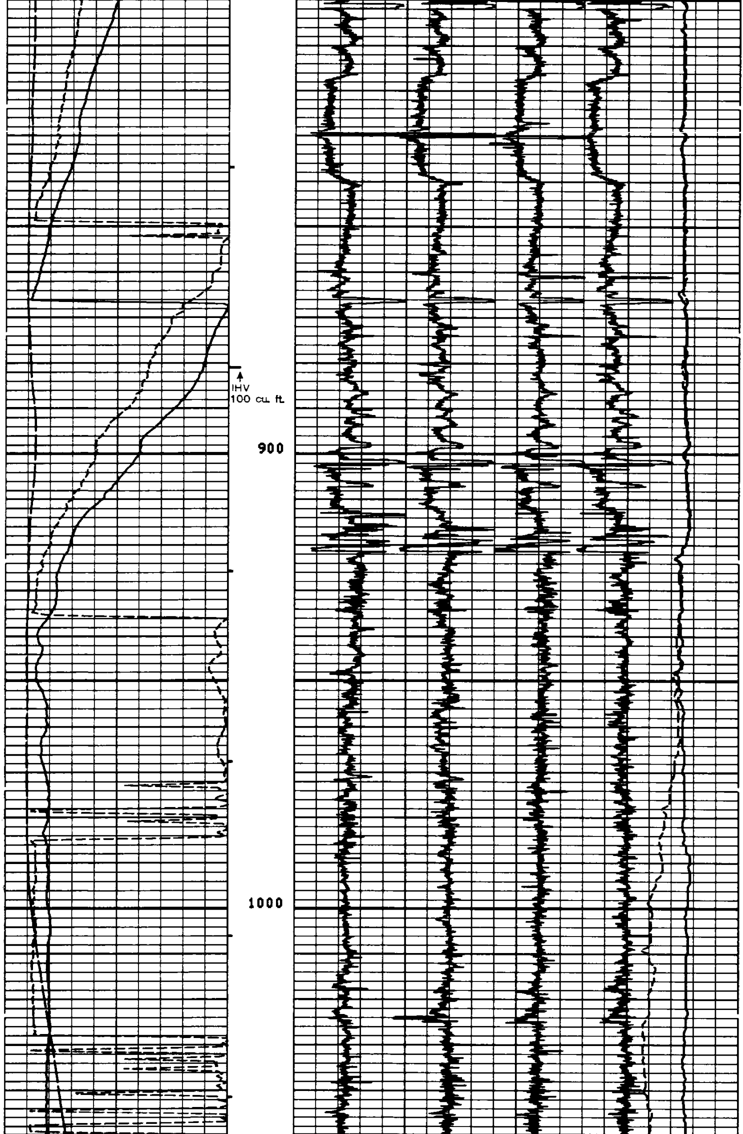
C2 (IN)
24.000 4.0000
C1 (IN)
24.000 4.0000

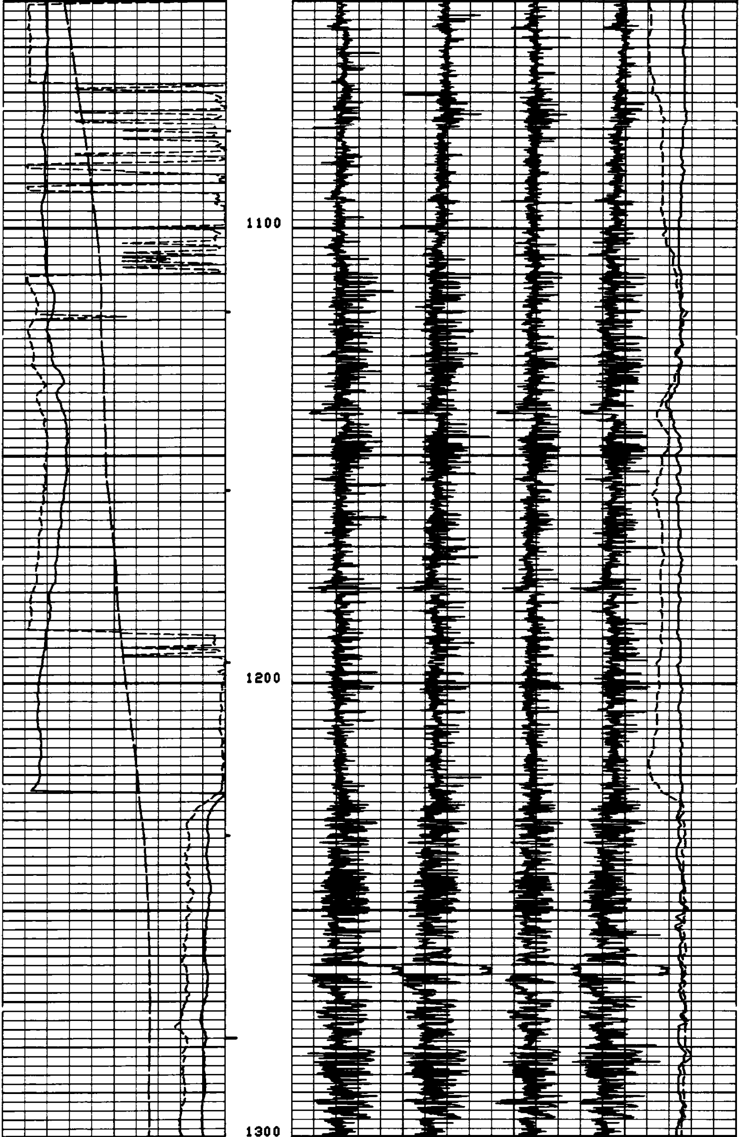
FILE

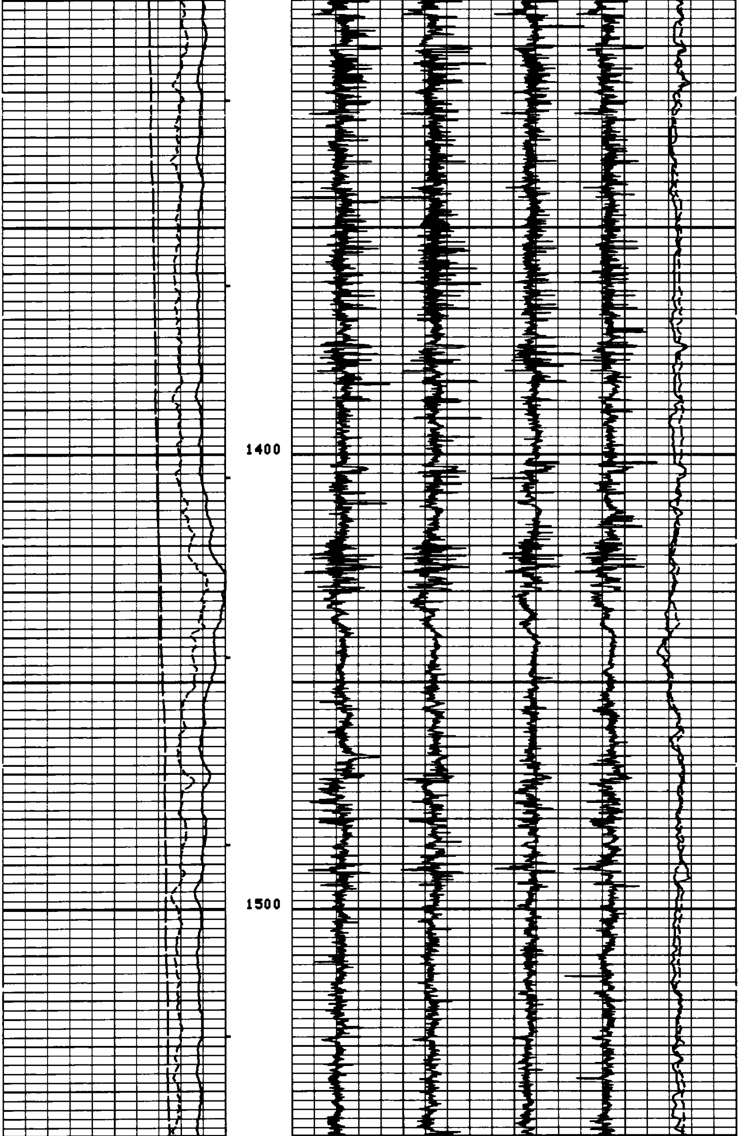
5

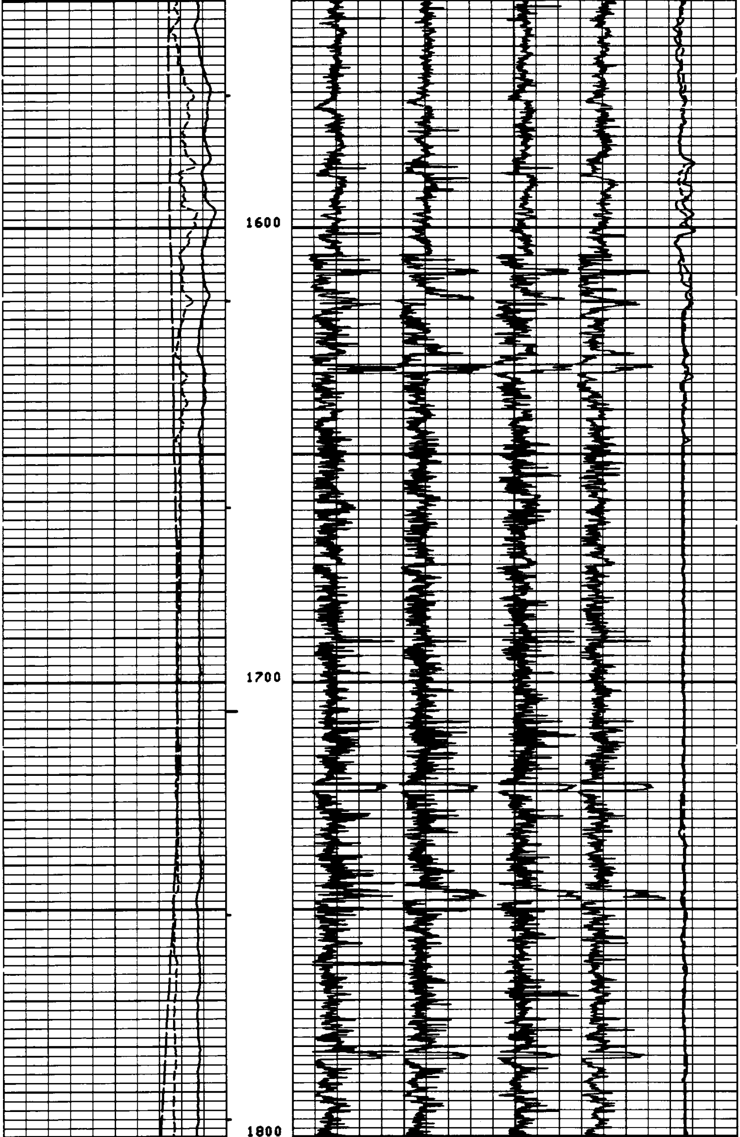


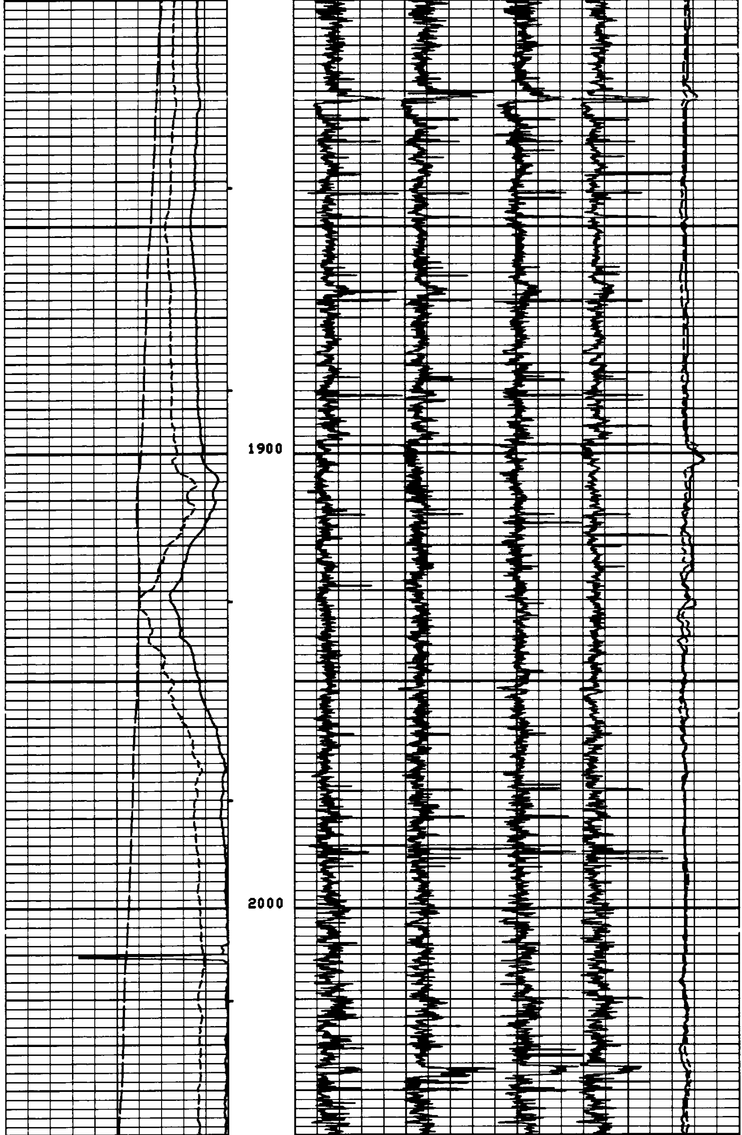


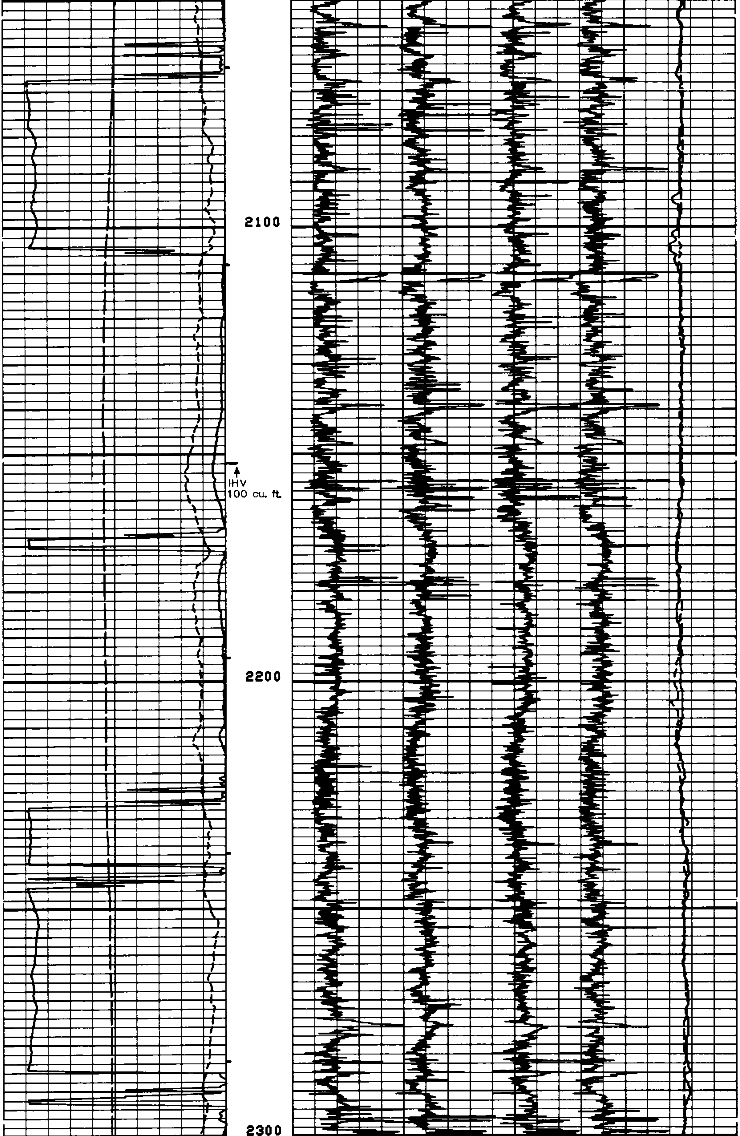


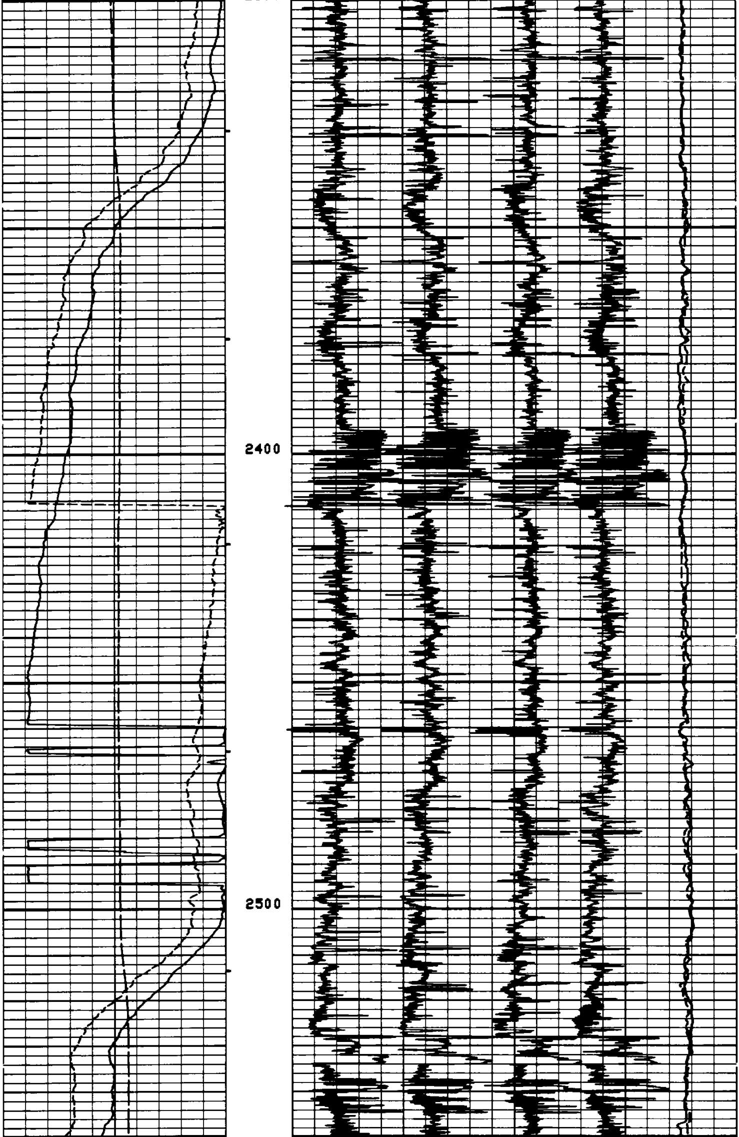


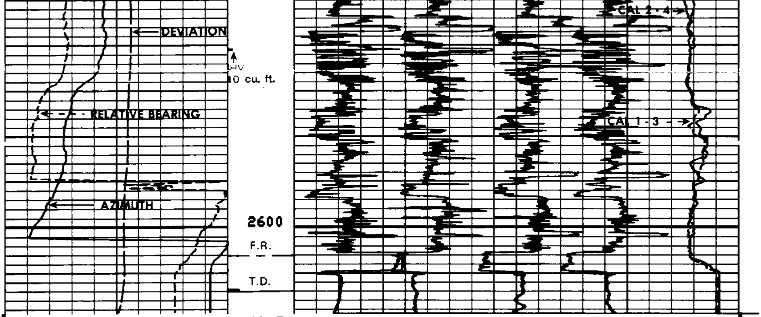












FILE

5

DEVI(DEG)	
-2.000 18.000	
RB (DEG)	C2 (IN)
-40.00 360.00	24.000 4.0000
AZIM(DEG)	C1 (IN)
-40.00 360.00	24.000 4.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	6.25000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

REPEAT SECTION

CHANGED PARAMETERS

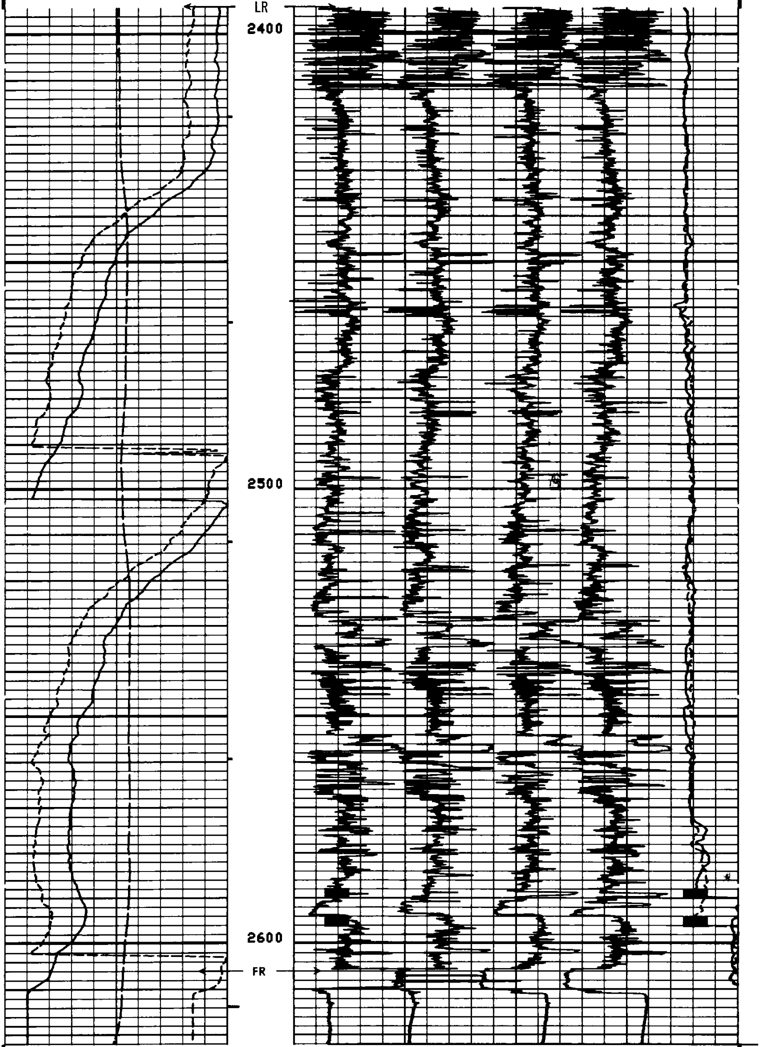
NAME	VALUE	UNIT	NAME	VALUE	UNIT
VHOL	45.2875	F3			

DEVI(DEG)	
-2.000 18.000	
RB (DEG)	C2 (IN)
-40.00 360.00	24.000 4.0000
AZIM(DEG)	C1 (IN)
-40.00 360.00	24.000 4.0000

SCALE	24.000	C2	4.0000
CHANGES	26.000	2589	6.0000
SCALE	24.000	C1	4.0000
CHANGES	26.000	2596	6.0000

FILE

4



FILE

4

DEVI(DEG)		
-2.000	18.000	
RB (DEG)		C2 (IN)
-40.00	360.00	26.000 6.0000
AZIM(DEG)		C1 (IN)
-40.00	360.00	26.000 6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

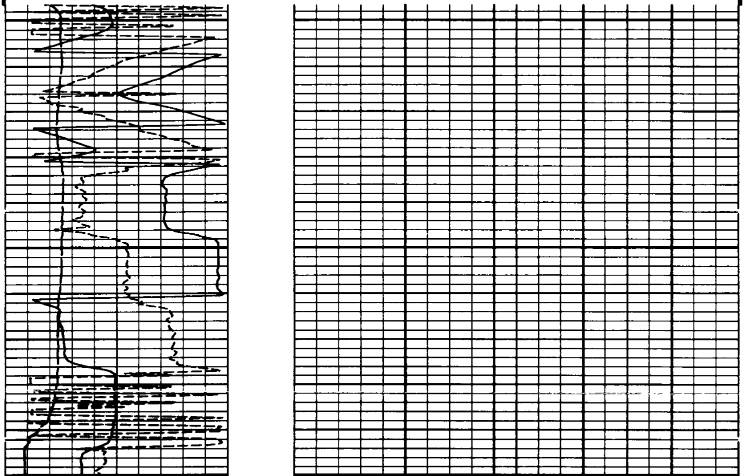
NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	6.25000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

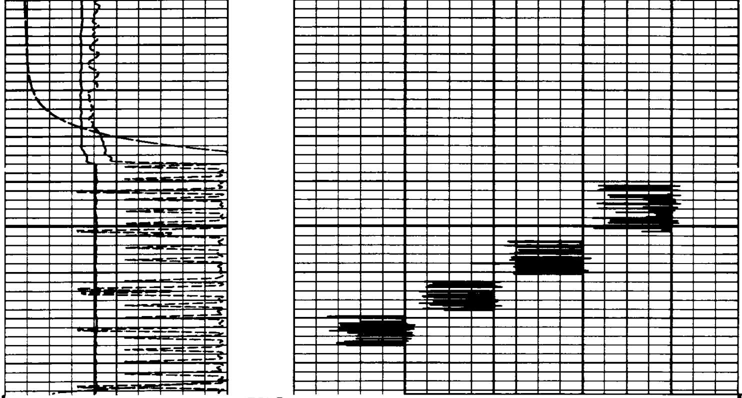
CALIBRATION BEFORE SURVEY

DEVI(DEG)		
-2.000	18.000	
RB (DEG)		C2 (IN)
-40.00	360.00	26.000 6.0000
AZIM(DEG)		C1 (IN)
-40.00	360.00	26.000 6.0000

FILE

3





FILE

3

DEVI(DEG)
-2.000 18.000
RB (DEG)
-40.00 360.00
AZIM(DEG)
-40.00 360.00

C2 (IN)
26.000 6.0000
C1 (IN)
26.000 6.0000

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

RB	.0	FEET	AZIM	.0	FEET
FEP1	.0	FEET	DEVI	.0	FEET
REFE	.0	FEET	FEP2	.0	FEET
EMEX	.0	FEET	RC	.0	FEET
C2	.0	FEET	C1	.0	FEET
RC2	.0	FEET	RC1	.0	FEET
TEMP	.0	FEET	PP	.0	FEET
FC0	.0	FEET	TENS	.0	FEET
FC2	.0	FEET	FC1	.0	FEET
FC4	.0	FEET	FC3	.0	FEET
SHDT	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PVUM	1.00000		BS	6.25000	IN
STYP	HDSD		MCT	36	DEG
DO	0.0	F	BHS	OPEN	

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                    BEFORE SURVEY CALIBRATION SUMMARY

     PERFORMED:      82/08/04
     PROGRAM FILE: HDT     (VERSION     22.2     82/06/08)


    HDT                    CALIPER CALIBRATION SUMMARY

                  MEASURED                        CALIBRATED
                SMALL    LARGE                  SMALL      LARGE         UNITS
       C1        9.2      13.7                   8.0        12.0          IN
       C2        8.8      13.4                   8.0        12.0          IN
                             FILE

                               2
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COMPANY REICHHOLD ENERGY CORP.

WELL COLUMBIA COUNTY 32-33

FIELD MIST

COUNTY COLUMBIA STATE OREGON

SCHL. FR 2606.0'

SCHL. TD 2614.0'

DRLR. TD 2614.0'

Elev: KB 1104.2'

DF N/A

GL 1092.8'

SWS—2872

—end—